

USER'S MANUAL

Star PIN120

Proximity Access Controller

Rev.2.0.1



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1. Important Safety Instructions

When using your Single Door Controller, basic safety precautions should always be followed to reduce the risk of fire, electrical shock, and injury to persons. In addition, the following should also be followed:

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on the product.
3. **Do not** use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning. If necessary, use mild soap.
4. **Do not** use this product near water, such as bath-tub, wash bowl, kitchen sink, laundry tub, in a wet basement, or swimming pool.
5. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your installation site, consult your dealer or local power company.
6. **Never** push objects of any kind into this product or through the cabinet slots as they may touch voltage points or short out parts that could result in fire or electric shock. Never spill liquid of any kind on the product.
7. To reduce the risk of electric shock, do not disassemble this product by yourself, but take it to qualified service whenever service or repair is required. Opening or removing the covers may expose you to dangerous voltages or other risks. Also, incorrect reassembly can cause electric shock when the unit is subsequently used.
8. **Unplug** this product from the Direct Current (DC) power source and refer to qualified service personnel under these conditions:
 - a. When the power supply cord or plug is damaged or frayed.
 - b. If liquid has been spilled on the product.
 - c. If the product does not operate normally after following the operating instructions in this manual. Adjust only those controls that are covered by the operating instructions in this manual. Improper adjustment of other controls that are not covered by this manual may damage the unit and will often require extensive work by a qualified technician to restore normal operation.
 - d. If the product exhibits a distinct change in performance.

2. General

The **STAR PIN120** is an intelligent single door keypad / controller that combines the convenience of entry control with the security of an alarm system. Also, the **STAR PIN120** system will give you field proven reliability and cost-effective solution anywhere access controls and security are required.

The **STAR PIN120** can interface and operate with EXIT button. Also, output ports, which include 2 Relays and 1 Bell. Moreover, the status or behaviours of these input and output accessories are configurable to provide the system administrator with complete customized control of the system.

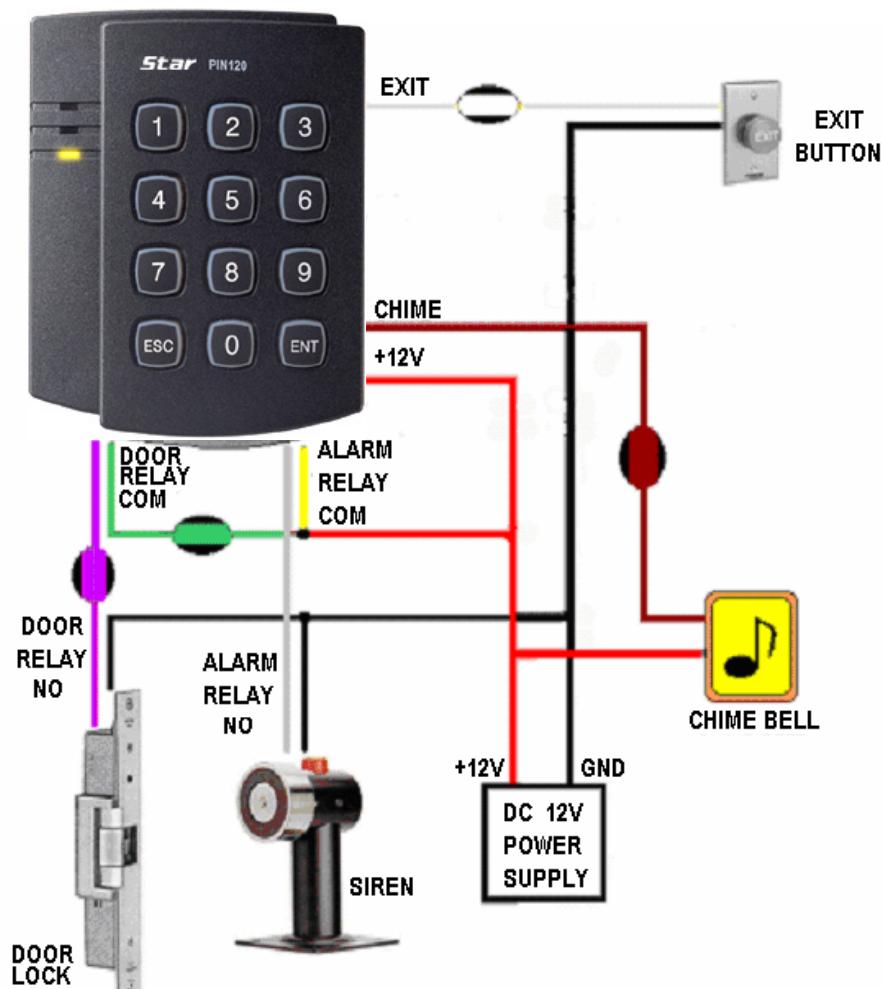
3. Features

- Programmable 6 digits Master ID
- 512 programmable access ID codes, each 4 ~ 6 digits in length
- Programmable output times up to 99 seconds
- Two output relays capable of latching or timed control
- Bell output activated when the 'Bell' key is depressed
- Three LEDs for indicating run-mode and output activates
- Melody sounds for operating sequence
- Programmable numbers of try-out and programmable keypad lock time
- Programmable silent operation
- Unconditional output control
- Quick access code activates output by "ENT" key only
- Retains all programmed data into Flash memory

4. Specification

CPU	8bit Microprocessor
Memory	8KB Program memory 2KB Flash memory
User Access ID	512(4 to 6 digits) User ID, 1 Master ID
Input	One Exit Button Input (low active)
Outputs	2 Form-C Relay output (max. 2A) One Bell output, open collector (max. 500mA)
Keypad	12 Numeric Keypad
LED	3 LEDs(red, green, yellow)
Power	DC12V, 160mA
Operating Environment	0 °C to 60 °C, 10% to 90% Humidity
Reset	Power On Reset

5. Installation



6. Wire Color of Table

NO	FUNCTION	COLOR	NO	FUNCTION	COLOR
1	+12V	RED	6	Alarm Relay (NC)	ORANGE
2	GND	BLACK	7	Alarm Relay (COM)	YELLOW
3	Door Relay (NC)	BLUE	8	Alarm Relay (NO)	GRAY
4	Door Relay (COM)	GREEN	9	BELL OUTPUT	BROWN
5	Door Relay (NO)	PURPLE	10	EXIT INPUT	WHITE

7. Operation

7-1. INITIAL SETTINGS

PIN120 has completely blank when it is delivered to customer. The unit automatically enters to initial setting mode when it is powered on.

You may also erase all memory by turn on the power after connecting 2wires.
(White and Brown)

Programming sequence is as follows:

- Connect 12V DC Power supply to RED(+) and BLACK(-) wire then power on
- You can hear the sound “Sol-Fa-Mi-Re-Do~” and all three LEDs on
- Press the keypads as follow.
 - (6 digit Master ID) + (ENT) Sound(Do-Do-Mi-Mi-Sol-Sol)
red & green LED on
 - (4~6 digit Access ID) + (ENT) Sound(Mi-Do), red LED on
 - ...
 - ... (up to 512 Access ID) + (ENT) Sound(Mi-Do)
 - (6 digit Master ID) + (ENT) Sound(Do-Sol-Mi--Do~)

Example)

You want to set Master ID “123456” and Access ID “1111”, “22222” and “345678”.

“123456” + (ENT)	: Register Master ID
“1111” + (ENT)	: Register Access ID
“22222” + (ENT)	: Register Access ID
“345678” + (ENT)	: Register Access ID
“123456” + (ENT)	: Finish Setting

※ Note :

Master ID must be 6 digits long and Access ID is 4~6 digit and (ESC) key is to cancel the key input, for example if you want to press "123456" but you pressed "112345" then press ESC key to cancel "112345" then press "123456" + (ENT) to correction.

The unit now enters to normal operation mode

With above sequence you already registered “MASTER ID” and “USER ACCESS ID” and the other default settings are automatically set and stored into flash memory.

7-2. DEFAULT SETTING VALUES

The default setting values are:

- **When Access ID Granted :**
 - Door Relay and green LED activates for 3 seconds
- **Exit Input entered :**
 - Door Relay and green LED activates for 3 seconds
- **When Access ID denied : (within Try-out count)**
 - Alarm Relay and red LED activates for 2 seconds
- **When Try-out error occur : (from 3rd Try-out)**
 - Alarm Relay and red LED activates for 2 seconds
 - Keypad locks for 60 seconds
- **Bell (ESC) key pressed:**
 - Bell sound (Mi-Do~ Mi-Do~)
 - Bell output (open collector) activates for 5 seconds
- **Numbers of Try-out count set to 3 times**
- **Keypad input limit time set for 20 seconds**
- **Keypad lock time set for 60 seconds**
- **Bell output enable**
- **Silent mode off**
- **Tamper Alarm off**
- **Quick Access Code disable**

7-3. NORMAL OPERATION

Yellow LED is blinking every second.

- **OPERATING OUTPUTS : 4 ~ 6 digits Access ID + ENT**
 - If Access ID is granted, Door Relay and green LED activates.
 - If Access ID is denied, Alarm Relay and red LED activates.
- **EXIT INPUT ENTERED : Door Relay and green LED activates.**
- **QUICK ACCESS (only activates when Quick Access Mode ON) : ENT**
 - Door Relay and green LED activates
- **BELL (only activates when BELL Output Time set) : ESC**
 - Bell output (open collector) activates with bell sound.

7-4. SEETING CHANGES

- **RESET ALL OUTPUTS(all Relays and Bell output OFF)**
 - Master ID + ENT
- **ADD NEW ACCESS ID**
 - Master ID + ENT + 11 + ENT + New Access ID + ENT
- **DELETE ACCESS ID**
 - Master ID + ENT + 13 + ENT + Delete Access ID + ENT
- **DOOR RELAY TIME SET : (TIME = 00 ~ 99 seconds)**
 - Master ID + ENT + 21 + ENT + TIME + ENT
- **ALARM RELAY TIME SET : (TIME = 00 ~ 99 seconds)**
 - Master ID + ENT + 22 + ENT + TIME + ENT
- **BELL OUTPUT TIME SET : (TIME = 00 ~ 99 seconds)**
 - Master ID + ENT + 23 + ENT + TIME + ENT
- **KEYPAD INPUT LIMIT TIME SET : (TIME = 10 ~ 99 seconds)**
 - Master ID + ENT + 25 + ENT + TIME + ENT
- **KEY LOCK TIME SET : (TIME = 00 ~ 99 seconds)**
 - Master ID + ENT + 26 + ENT + Key lock time + ENT
- **TRY-OUT COUNT SET : (COUNT = 00 ~ 99 times)**
 - Master ID + ENT + 27 + ENT + COUNT + ENT
- **DOOR RELAY LATCH(unconditional ON)**
 - Master ID + ENT + 31 + ENT
- **ALARM RELAY LATCH(unconditional ON)**
 - Master ID + ENT + 32 + ENT
- **BELL OUTPUT(open collector) LATCH(unconditional ON)**
 - Master ID + ENT + 33 + ENT
- **TAMPER ALARM ON**
 - Master ID + ENT + 41 + ENT
- **TAMPER ALARM OFF**
 - Master ID + ENT + 42 + ENT
- **SILENT MODE OFF**
 - Master ID + ENT + 51 + ENT
- **SILENT MODE ON**
 - Master ID + ENT + 52 + ENT
- **QUICK ACCESS MODE ON**
 - Master ID + ENT + 61 + ENT
- **QUICK ACCESS MODE OFF**
 - Master ID + ENT + 62 + ENT

- **MASTER ID CHANGE**
 - Master ID + ENT + 90 + ENT + New Master ID + ENT
- **ERASE ALL MEMORY AND INITIALIZE SETTINGS**
 - Master ID + ENT + 99 + ENT + master ID + ENT

8. FCC Registration Information

FCC REQUIREMENTS PART 15

Caution: Any changes or modifications in construction of this device which are not expressly approved by the manufacturer for compliance could void the user's authority to operate the equipment.

NOTE: This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions;

1. This device may not cause harmful interface, and
2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A Digital Device, pursuant to Part 15 of the FCC Rules. These limits are designed to this equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the radio or television off and on, the user is encouraged to try to correct interference by one or more of the following measures.

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on another circuit.
4. Consult the dealer or an experienced radio/TV technician for help.

9. Warranty and Service

The following warranty and service information applies only to the United States of America and the Republic of Korea. For the information in other countries, please contact your local distributor. To obtain in or out of warranty service, please prepay shipment and return the unit to the service facility listed below.

IN THE UNITED STATES

RF LOGICS Inc. Service Center
3026 Scott Blvd.,
SANTA CLARA, CA95054
Tel.: (408) 980-0001
Fax.: (408) 980-8060
E-mail: rilogics@rflogics.com
Web-site: www.rflogics.com

OUTSIDE OF THE UNITED STATES

ID TECK CO., LTD. Service Center
5F Ace Techno Tower B/D,
684-1 Deungchon-Dong, Gangseo-Gu,
SEOUL, KOREA 157-030
Tel.: +82-2-2659-0055
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